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APR 11 2007

Application No.: 10/564,086Docket No.: 4590-475**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-7 (canceled).

8. (Currently Amended): A stator of an electric machine comprising:
an autonomous cooling circuit,
means for sealing the cooling circuit with respect to a rotor of the electric machine,
a magnetic circuit comprising slots, and
a winding arranged in the slots, wherein ~~the sealing means comprise a fluidtight shell sandwiched in the magnetic circuit~~ the stator comprises a two-part magnetic circuit whose parts are separated by a fluidtight shell.

9. (Previously Presented): The stator as claimed in claim 8, wherein the shell is of tubular shape and is centered around an axis of revolution of the electric machine.

10. (Currently Amended): The stator as claimed in ~~either of~~ claim 8, wherein the magnetic circuit comprises a first stack of laminations produced outside the shell and a second stack of laminations produced inside the shell.

11. (Previously Presented): The stator as claimed in claim 10, wherein the first and the second stacks of laminations comprise slots and in that the slots of the second stack of laminations are arranged in the continuation of the slots of the first stack of laminations.

Application No.: 10/564,086**Docket No.: 4590-475**

12. (Previously Presented): The stator as claimed in claim 11, wherein the winding is completely situated in the slots of the first stack of laminations.

13. (Previously Presented): The stator as claimed in claim 11, wherein the second stack of laminations comprises bridges which close the slots of the second stack of laminations, the bridges being situated in the immediate vicinity of a gap of the electric machine.

14. (Previously Presented): The stator as claimed in claim 8, wherein the shell is formed by a coating of one of the stacks of laminations.

15. (Previously Presented): The stator as claimed in claim 9, wherein the magnetic circuit comprises a first stack of laminations produced outside the shell and a second stack of laminations produced inside the shell.

16. (Previously Presented): The stator as claimed in claim 12, wherein the second stack of laminations comprises bridges which close the slots of the second stack of laminations, the bridges being situated in the immediate vicinity of a gap of the electric machine.